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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/523,168 | 01/27/2005 | Sunao Kurimura | 04910/HG | 8184 |
| 1933 | 7590 | 03/07/2007 | EXAMINER | |
| FRISHAUF, HOLTZ, GOODMAN & CHICK, PC | | | RAO, G NAGESH | |
| 220 Fifth Avenue | | | ART UNIT | PAPER NUMBER |
| 16TH Floor | | | 1722 | |
| NEW YORK, NY 10001-7708 | | | | |
| SHORTENED STATUTORY PERIOD OF RESPONSE | | MAIL DATE | DELIVERY MODE | |
| 3 MONTHS | | 03/07/2007 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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| | | |
|------------------------------|------------------------|---------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/523,168 | KURIMURA ET AL. |
| | Examiner | Art Unit |
| | G. Nagesh Rao | 1722 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-6 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 1) Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Tom (US Patent No. 6,029,500).

Examiner wished to point out that claim 1 reads on as a product by process claims, which are treated as product claims and thus examined under those conditions, please see MPEP 2113 for further details.

Claim 1 essentially refers to a quartz crystal substrate with a step structure encompassing protruding parts. Broadly interpreted, examiner puts forth Tom 500 as teaching a quartz crystal substrate with protruding parts (See Figure 2 and 3, Col 5 Lines 29-68).

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 2) Claims 2-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Shinma (US Patent No. 6,471,501).

Examiner wishes to point out that claims 2-6 are directed to a set of apparatus claims and as such will be treated as apparatus claims. Ergo please see MPEP 2115 [R-2] for details regarding material worked upon by the apparatus does not limit the claim structure of the apparatus itself, since it is viewed as a recitation of intended use by the device.

Shinma 501 discloses a hot press-plate apparatus system that is capable of being used to work on a quartz crystal in order to help process the material. As can be seen in Figure 1 of Shinma 501, disclosed is a press-plate apparatus system comprised of a pair press-plates (23, 60) and heating blocks (22, 71, 72 i.e. anticipating plurality of heaters) attached to said press-plates, whereby the press plates and the heating blocks are comprised of separate materials since they can be attached or removed off one another thus broadly reading on the phrase “constructed from a different material”, being that the two separate pieces are not one whole said material piece but two different material pieces whereby the press plate and heating block when combined together read on a pressing block thus reading on a heating mechanism in the pressing blocks and with their being more than one heat source (22, 71, and 72) reading on plurality of heaters, followed by the upper press surface system is held on the main body of the pressing apparatus via a swinging mechanism (21, 24, and 25) which is used to help maintain the

Art Unit: 1722

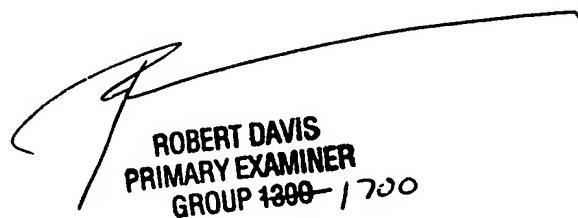
planarity of the product's surface worked upon. Finally Shinma 501 discloses the use of a compressed air system which is utilized and reads on as being characterized in that the air pressure alone is used to generate the pressing force (See Col 3-13 Lines 1-68, in particular Col 4 Line 5-68, Col 6 Lines 44-55, Col 11 Lines 26-57, and Col 12 Lines 9-39).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (571)272-1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GNR



ROBERT DAVIS
PRIMARY EXAMINER
GROUP 1300-1700

3/2/07